EP000001236008A1 I

Fig. 1

Fig. 2

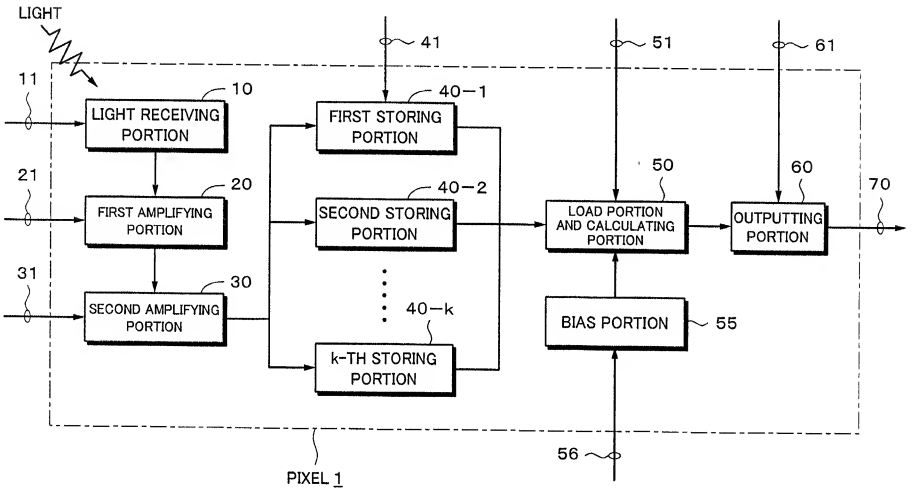

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Fig. 3

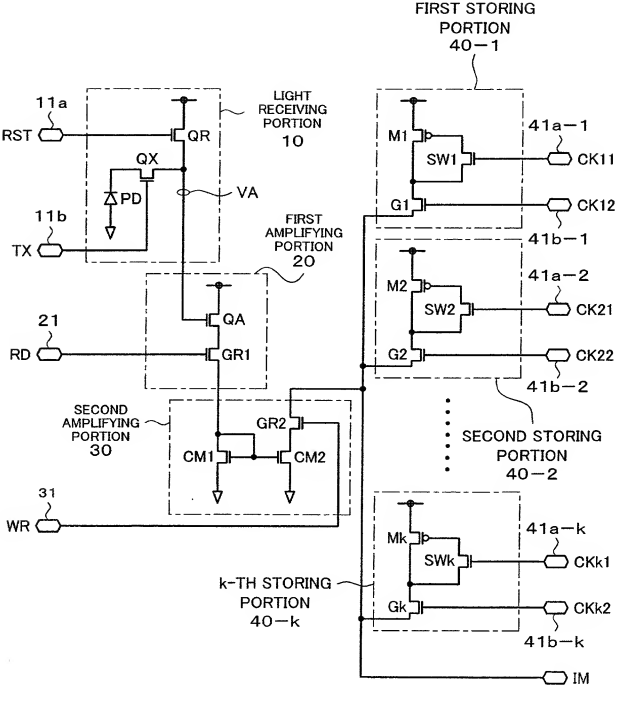
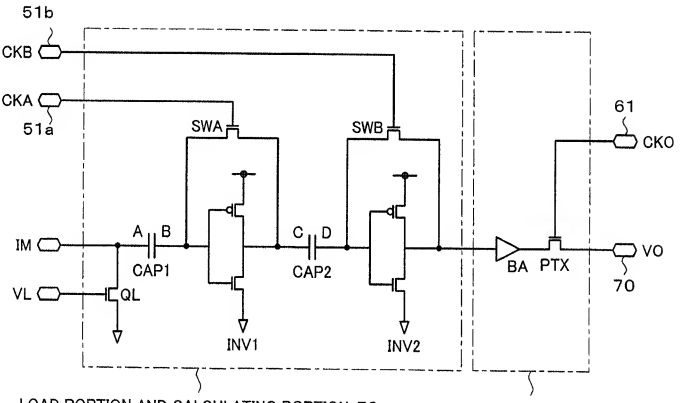

FIRST STORING PORTION 40−1
11a
RST
QR
LIGHT RECEIVING PORTION 10
QX
PD
VA
11b
TX
FIRST AMPLIFYING PORTION 20
M1
SW1
G1
41a−1
CK11
CK12
41b−1
21
RD
QA
GR1
M2
SW2
G2
41a−2
CK21
CK22
41b−2
SECOND AMPLIFYING PORTION 30
GR2
CM1
CM2
SECOND STORING PORTION 40−2
31
WR
Mk
SWk
Gk
41a−k
CKk1
CKk2
41b−k
k-TH STORING PORTION 40−k
IM

Fig. 4


51b
CKB
CKA
51a
SWA
SWB
61
CKO
IM
A
B
C
D
CAP1
CAP2
VL
QL
INV1
INV2
BA
PTX
VO
70
LOAD PORTION AND CALCULATING PORTION 50
OUTPUTTING PORTION 60

2090S0 ZS660004

Fig. 5

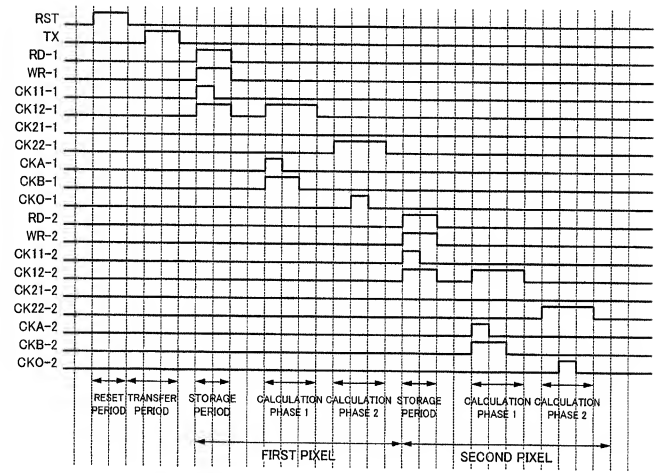


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Fig. 6

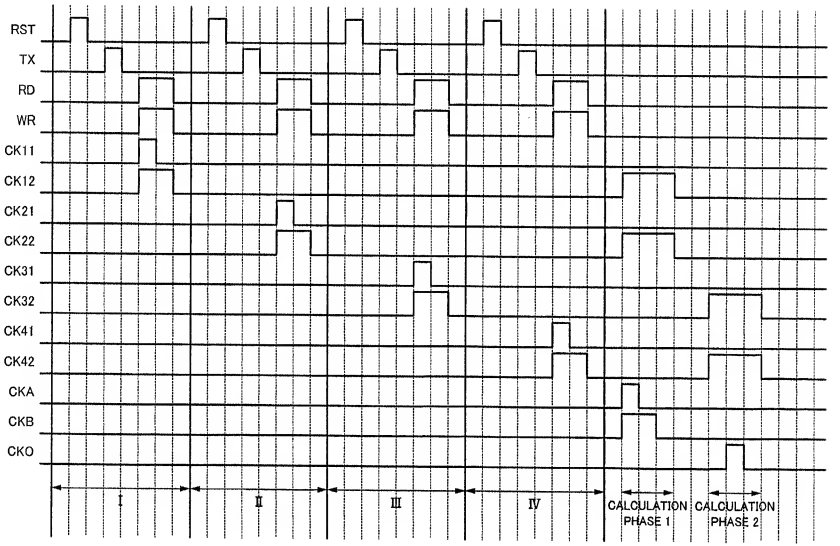

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Fig. 7

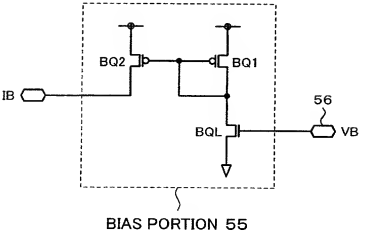


Fig. 8

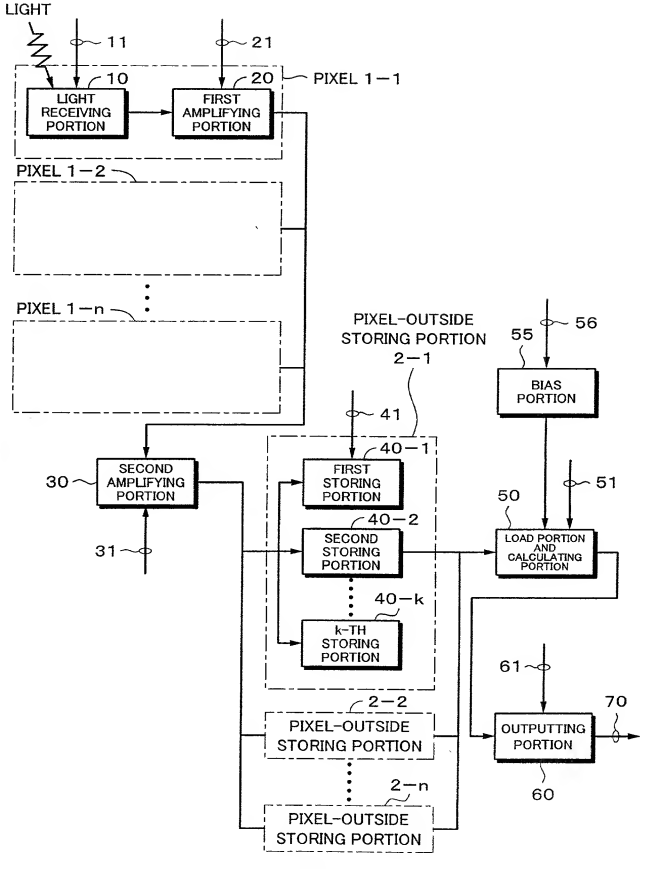
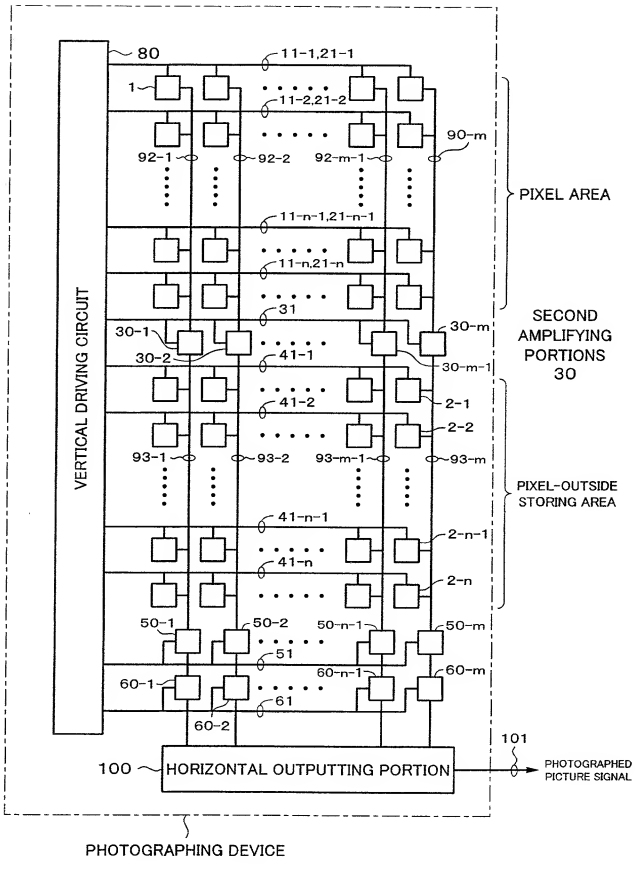

LIGHT
11
21
10
20
PIXEL 1−1
LIGHT RECEIVING PORTION
FIRST AMPLIFYING PORTION
PIXEL 1−2
PIXEL 1−n
PIXEL-OUTSIDE STORING PORTION
2−1
55
56
BIAS PORTION
41
40−1
30
SECOND AMPLIFYING PORTION
FIRST STORING PORTION
50
51
40−2
31
SECOND STORING PORTION
LOAD PORTION AND CALCULATING PORTION
40−k
k-TH STORING PORTION
61
70
2−2
PIXEL-OUTSIDE STORING PORTION
OUTPUTTING PORTION
2−n
60
PIXEL-OUTSIDE STORING PORTION

Fig. 9


80
11-1,21-1
1
11-2,21-2
90-m
92-1
92-2
92-m-1
PIXEL AREA
11-n-1,21-n-1
11-n,21-n
31
30-1
30-m
SECOND AMPLIFYING PORTIONS 30
30-2
41-1
30-m-1
41-2
2-1
2-2
93-1
93-2
93-m-1
93-m
PIXEL-OUTSIDE STORING AREA
41-n-1
2-n-1
41-n
2-n
50-1
50-2
50-n-1
50-m
51
60-1
60-n-1
60-m
61
60-2
VERTICAL DRIVING CIRCUIT
101
100
HORIZONTAL OUTPUTTING PORTION
PHOTOGRAPHED PICTURE SIGNAL
PHOTOGRAPHING DEVICE

20050827.050500T

Fig. 10

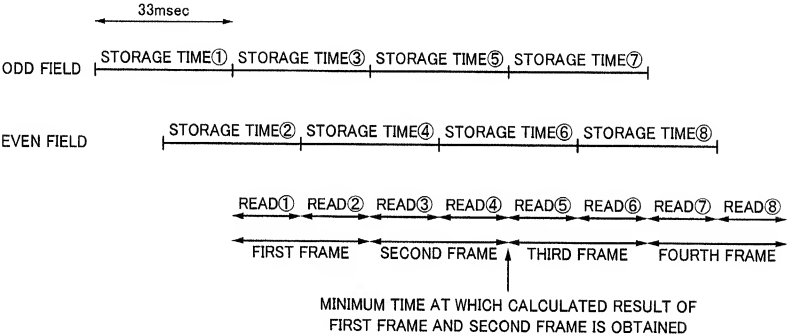


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Fig. 11

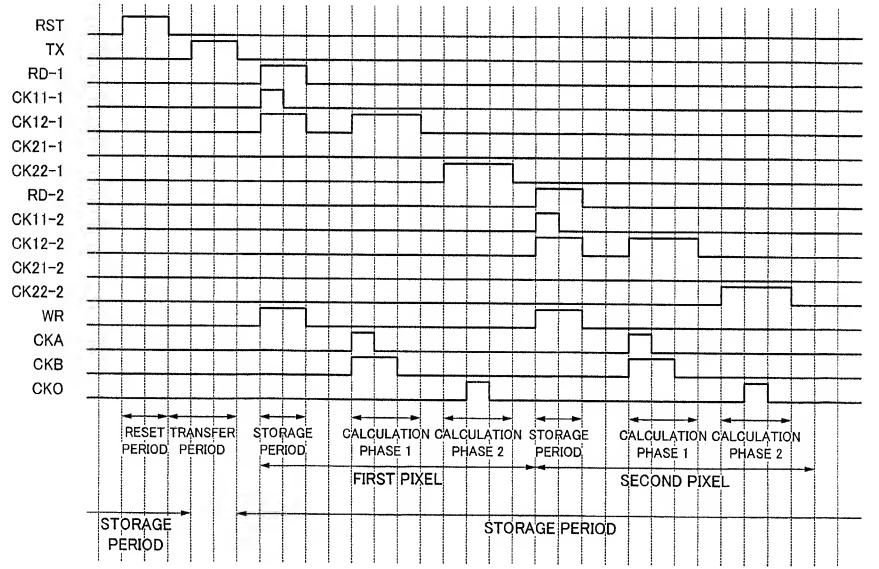

Fig. 12

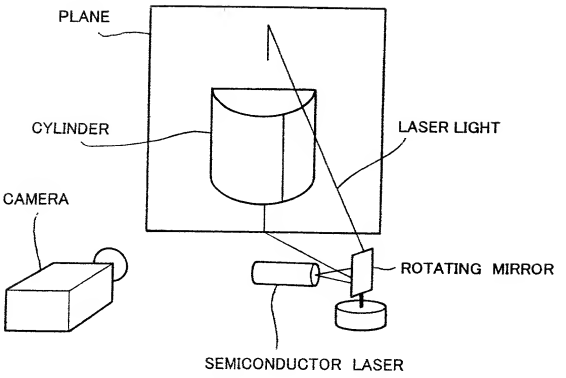
PLANE
CYLINDER
LASER LIGHT
CAMERA
ROTATING MIRROR
SEMICONDUCTOR LASER

Fig. 13

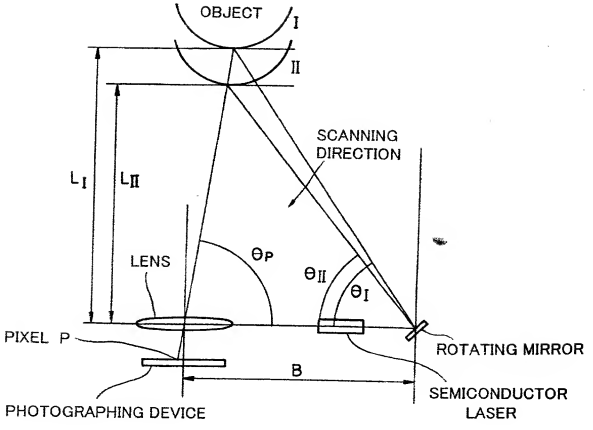

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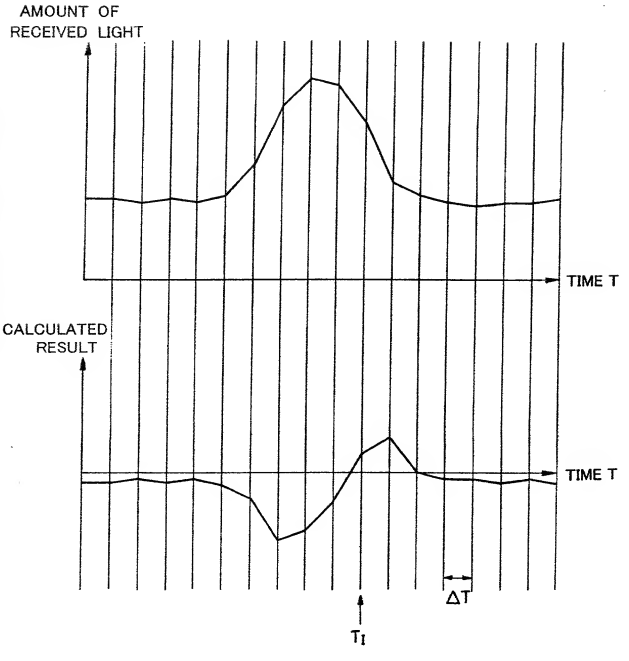
Fig. 14


AMOUNT OF
RECEIVED LIGHT
TIME T
CALCULATED
RESULT
TIME T
ΔT
T_I